

CASWELL FILE

PC 059102

OFF OFFICIAL RECORD  
HEALTH EFFECTS DIVISION  
SCIENTIFIC DATA REVIEWS  
EPA SERIES 881

JUL 30 1986

MEMORANDUMOFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: Chlorpyrifos-methyl  
TOX Chem. No. 179-AA

TO: Jay Ellenberger  
Insecticide Branch/HED (TS-769)

THRU: Robert B. Jaeger, Section Head  
Review Section #1  
Toxicology Branch/HED (TS-769)

FROM: Ray Landolt  
Review Section #1  
Toxicology Branch/HED (TS-769)

Registrant: Dow Chemical Co. letter of June 19, 1986.Pesticide Petition: 6F3429/6H5506Action Requested:

Reinstate the following tolerances on corn withdrawn by  
Dow Chemical Co. letter of April 11, 1985, proposed for  
Petition No. 0F2423/0H5277 on stored grain.

Corn	6 ppm
Corn, milling fraction (except flour)	30 ppm
Corn, soapstock	40 ppm

Note:

This review has been expedited per the request of Jim  
Akerman, Acting Director, Registration Division, memo of  
July 11, 1986.

Recommendation:

The toxicity data base in support of tolerances for  
residues of 0,0-dimethyl 0-(3,5,6-trichloro-2-pyridinyl)  
phosphorothioate and its metabolite 3,5,6-trichloro-2-pyridinol  
in or on stored grain is complete. The acceptable daily  
intake (ADI) 0.01 mg/kg/day was determined from the two year  
dog feeding study NOEL of 0.1 mg/kg/day and a uncertainty  
factor of 10 based on cholinesterase depression at the 1.0  
mg/kg/day level.

The tolerances proposed by the addition of corn will increase the TMRC from 0.019529 mg/kg/day to 0.023294 mg/kg/day; an increase of 19.28% (printout attached). The corn use would utilize 233% of the ADI as compared to 195% presently for residues on barley, oats, rice, sorghum and wheat.

The dietary contribution from these uses on stored grain has exceeded the ADI estimated from theoretical calculations of dietary exposure. "Toxicology Branch recommends that actual residues for chlorpyrifos-methyl be determined for all presently registered uses and that any additional tolerances be withheld pending the determination of such residues likely to result from any additional uses(s)." (Review of R. Landolt 8/20/85).

A survey of the Toxicology Branch file for chlorpyrifos methyl indicates that the Reldan 3% (EPA No. 7501-99) formulation has not been reviewed by Tox. Branch nor the acute studies in support of the precautionary labeling.

The inert ingredients (requested from RD 7/24/86) filed in the confidential statement of formula for Reldan 3% dust (EPA No. 7501-99) are cleared under 180.1001 when applied to growing crops or the raw agricultural commodities after harvest.

Attachment

TS-769:LANDOLT:s11:X73710:7/29/86 Card New

## TOXICOLOGY BRANCH ADI PRINTOUT

Date: 07/22/86

THE FOLLOWING INFORMATION WAS SUPPLIED BY THE USER:

Chemical name: Chlorpyrifos-methyl adi = .01 MG/KG

Caswell #179AA

Safety factor = 10

CFR No. 419

## RESIDUE CONTRIBUTION OF PUBLISHED TOLERANCES

CROP	TOLERANCE (PPM)	PETITION NUMBER	FOOD FACTOR	MG/DAY
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No published tolerances listed in file.

## RESIDUE CONTRIBUTION OF TOX-APPROVED TOLERANCES

CROP	TOLERANCE (PPM)	PETITION NUMBER	FOOD FACTOR	MG/DAY
8 Barley	6.000	0F2423	0.03	0.002700000
26 Cattle	1.000	0F2423	7.18	0.107700000
54 Eggs	0.050	0F2423	2.77	0.002077500
62 Goats	1.000	0F2423	0.03	0.000450000
69 Hogs	0.500	0F2423	3.43	0.025725000
93 Milk and dairy products	0.020	0F2423	28.62	0.008586000
102 Oats	6.000	0F2423	0.36	0.032400000
128 Poultry	0.100	0F2423	2.94	0.004410000
137 Rice	6.000	0F2423	0.55	0.049500000
145 Sheep	1.000	0F2423	0.19	0.002850000
147 Sorghum	6.000	0F2423	0.03	0.002700000
170 Wheat	6.000	0F2423	10.36	0.932400000
208 Horses	0.500	0F2423	0.03	0.000225000

TMRC  
0.019529 mg/kg/day (60kg BW, 1.5kg diet)

%adi  
195.287250

## RESIDUE CONTRIBUTION OF NEW (PENDING) TOLERANCES

CROP	TOLERANCE (PPM)	PETITION NUMBER	FOOD FACTOR	MG/DAY
38 Corn, all types	6.000	6F3429	2.51	0.225900000

TMRC  
0.023294 mg/kg/day (60kg BW, 1.5kg diet)

%adi  
232.937250



13544

005359

<b>Chemical:</b>	<b>Chlorpyrifos-methyl (ANSI)</b>
<b>PC Code:</b>	<b>059102</b>
<b>HED File Code</b>	<b>13000 Tox Reviews</b>
<b>Memo Date:</b>	<b>07/30/1986</b>
<b>File ID:</b>	<b>00000000</b>
<b>Accession Number:</b>	<b>412-01-0126</b>

**HED Records Reference Center**  
**03/21/2001**

